

22f  
Aco

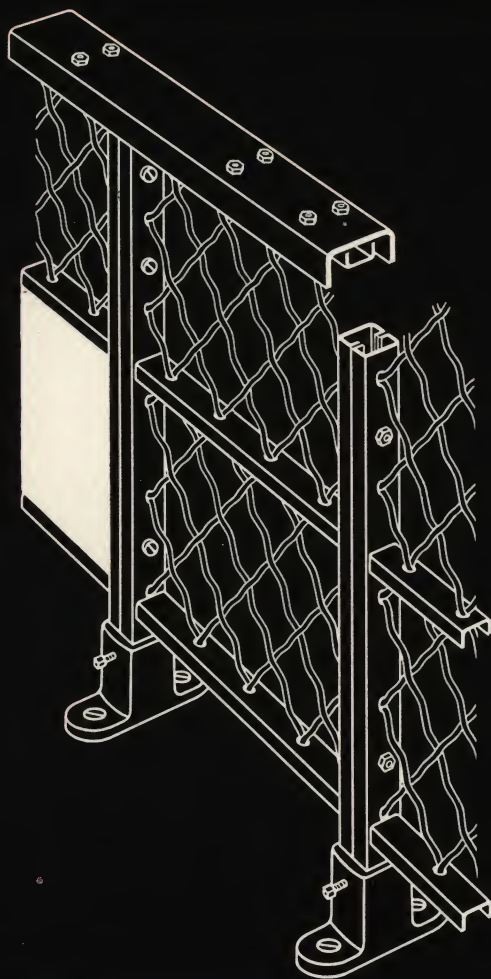
YALE  
ACORN  
WIRE & IRON  
WORKS  
CHICAGO

## wire mesh partitions

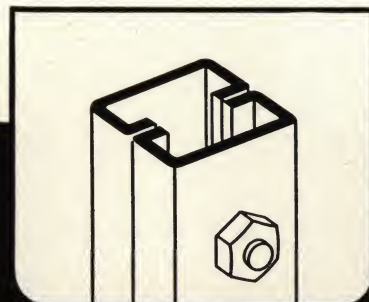
Acorn Wire and Iron Works, Inc.  
New York — Chicago — Los Angeles



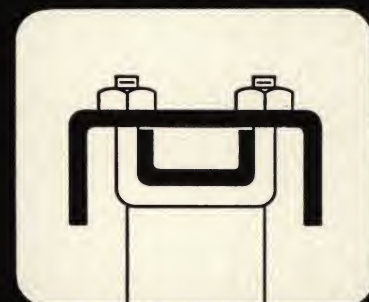
## construction



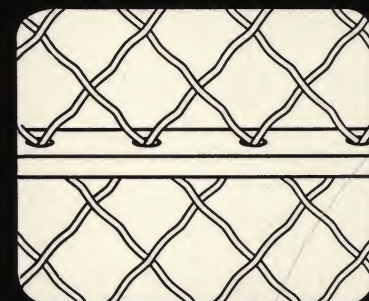
Formed "turned-in-toe"  
channel uprights prevent  
telescoping, assure  
permanent alignment.



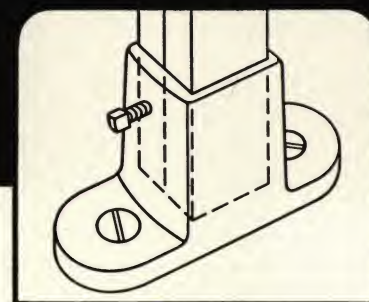
Capping channel  
'U' bolted to panels  
simplifies installation  
and re-arrangement.



Woven in center channel  
provides better  
appearance, additional  
rigidity.



Adjustable cast iron  
floor sockets  
permit level installation,  
secure anchorage.



## wire mesh partitions

Acorn partitions are made up of a series of standardized units. Panels, doors, service windows and corners can be arranged in any combination, giving maximum flexibility in layout. Standardization permits expansion at any time with no loss of component parts.

### advantages

strength

security

simplicity

### types:

no. 130A

All wire type for normal industrial use. 7', 8', 9' and 10' standard heights.

a

no. 139A

Sheet base type. Additional strength, better appearance. 7', 8', 9', 10' standard heights.

b

no. 130AL

All wire type using vertical flat bar posts. 11' to 20' standard heights.

c

no. 139AL

Sheet base type using vertical flat bar posts. 11' to 20' standard heights.

d

no. 135

All wire type for extra heavy industrial use. 7' to 20' heights.

how to order

back cover



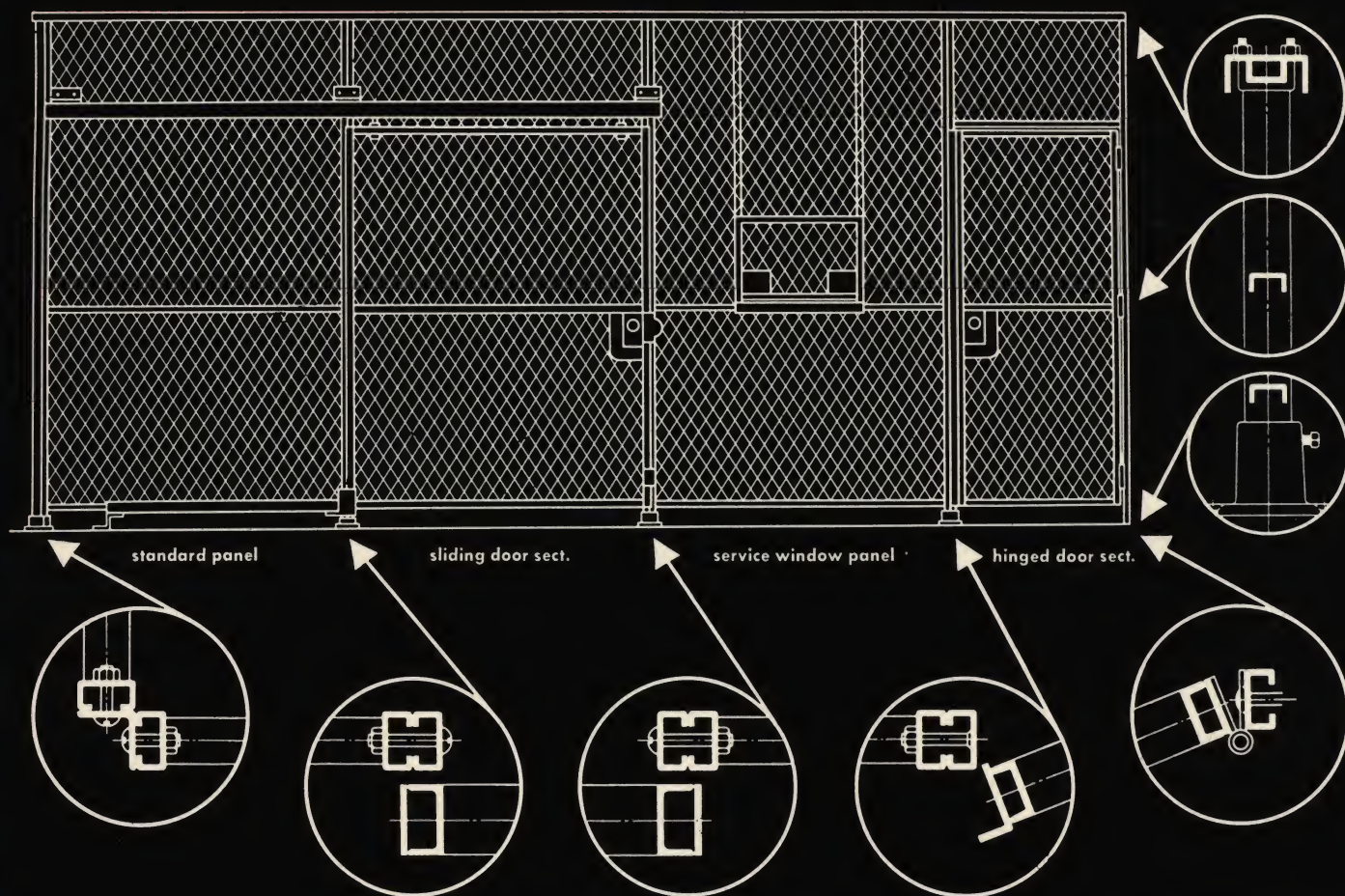
Slide-up service windows for use in any location. Standard size 24" wide by 15" high, special sizes to order. Windows lock in opened and closed positions with spring catches. Shelf is 12 gauge steel, 12" deep x 25" wide (optional)

Door locks are pick-proof bronze mortise type operated by key outside, recessed knob inside. Can be keyed alike, different or master-keyed. Cylinder locks are standard equipment on all doors unless otherwise specified.





typical grouping of no.130A sections



## components—nominal sizes

### standard panels:

Stock sizes—5' wide, 7', 8', 9' and 10' high. Special heights up to 10' made to order.

### sliding door sections:

Stock sizes—3', 4', 5' and 6' wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

### service window panels:

Stock sizes—24" x 15" standard service window (see page 3) in standard 5' panels. Special windows and panels to order.

### hinged door sections:

Stock sizes—2'-6", 3' and 3'-6" wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

### filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5' wide panels cannot be used.

### corners and intersections:

Stock sizes—1¼" angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 1⅝" O.D. pipe post for other than 90° corner.

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

## 7'—10' wire mesh partitions

### all wire type—no. 130A

Basic all wire type for normal industrial use. 7', 8', 9' and 10' standard heights.

### specifications

Partitions to be no. 130A as manufactured by Acorn Wire and Iron Works, Inc.

—All wire type constructed of 10 gauge steel wire woven into 1½" diamond mesh, securely clinched to frames—Vertical frames to be 1¼" x ⅝" cold rolled 'C' section channels with ¼" bolt holes 12" o.c.—

Horizontal frames 1" x ½" cold rolled channels

—All joints mortised and tenoned—

Center reinforcing bar 1" x ½" cold rolled channel tenoned to side frames. All wires passed through center bar—Top capping bar 2¼" x 1" cold rolled channel with ¼" 'U' bolts 2'4" o.c.

—Corner posts 1¼" x 1¼" angles with ¼" bolt holes to match partition—Cast iron floor sockets 2½" high with set screw adjustment—

Sliding door frames 1½" x ¾" channel with 1½" x ⅝" flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel—

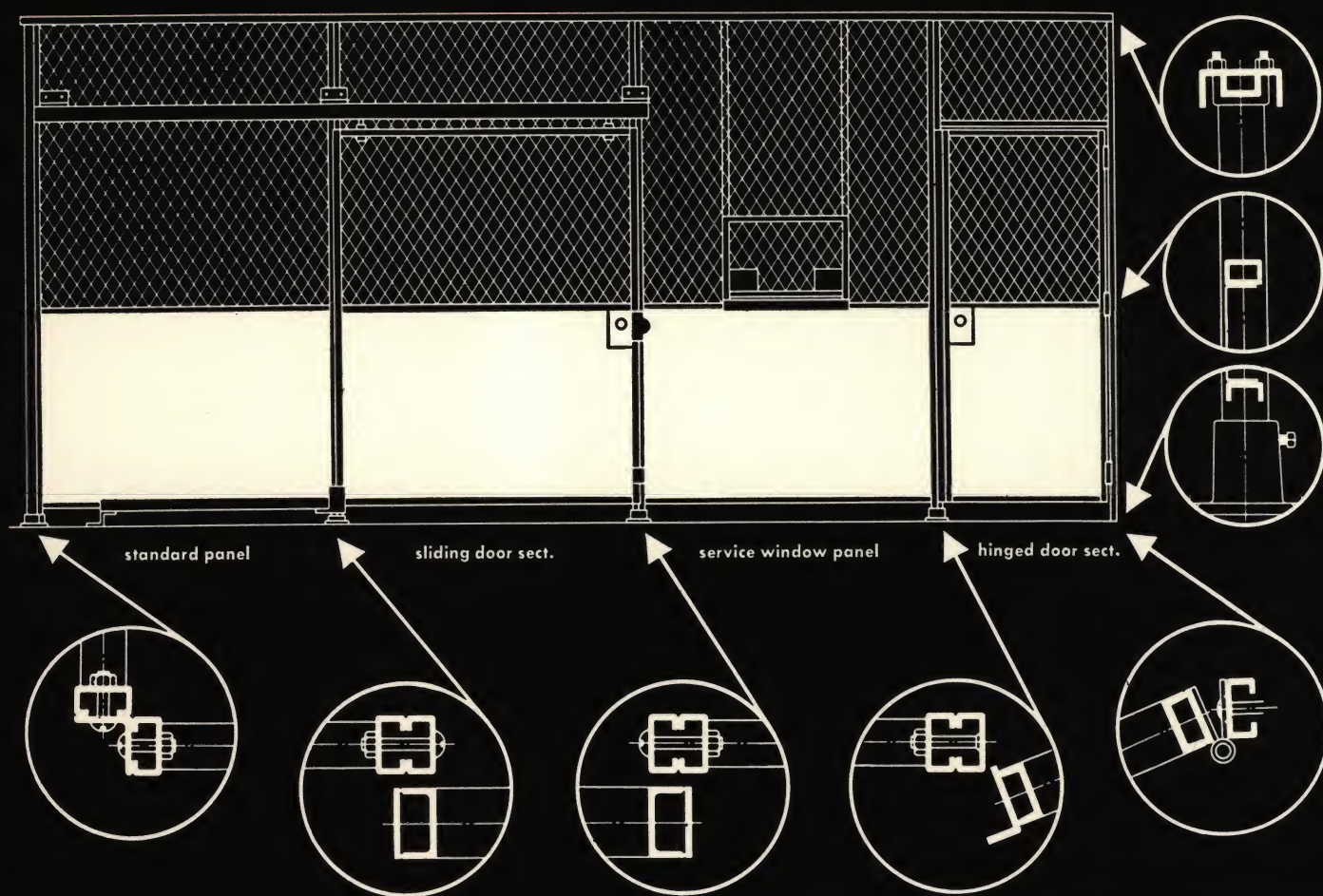
Hinged door frames 1¼" x ½" channel with 1¼" x ⅝" flat bar cover three sides, 1⅝" x ¾" x ⅝" angle riveted to lock side. Each door to have 1½ pairs butt hinges riveted to both door and transom bar—All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside

—All bolts, hardware, and accessories for complete installation to be included—

Field bracing furnished by erector—Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.



typical grouping of no.139A sections



## 7'—10' wire mesh partitions

### sheet base type—no. 139A

Deluxe sheet base type for normal industrial use. 7', 8', 9' and 10' standard heights.

### components—nominal sizes

#### standard panels:

Stock sizes—5' wide, 7', 8', 9' and 10' high. Special heights up to 10' made to order.

#### sliding door sections:

Stock sizes—3', 4', 5' and 6' wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

#### service window panels:

Stock sizes—24" x 15" standard service window (see page 3) in standard 5' panels. Special windows and panels to order.

#### hinged door sections:

Stock sizes—2'-6", 3' and 3'-6" wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

#### filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5' wide panels cannot be used.

#### corners and intersections:

Stock sizes—1¼" angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 1½" O.D. pipe post for other than 90° corner.

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

#### specifications

Partitions to be no. 139A as manufactured by Acorn Wire and Iron Works, Inc.

—Sheet base type—Top panel constructed of 10 gauge steel wire woven into 1½" diamond mesh securely clinched to frames

—Lower panel constructed of 16 gauge formed steel sheet securely bolted to frames

—Vertical frames to be 1¼" x ⅝" cold rolled 'C' section channels with ¼" bolt holes

12" o.c.—Horizontal frames 1" x ½" cold rolled channels—All joints mortised and tenoned

—Top capping bar 2¼" x 1" cold rolled channel with ¼" 'U' bolts 2'4" o.c.—Corner posts 1¼" x 1¼" angles with ¼"

bolt holes to match partition—Cast iron floor sockets 2½" high with set screw adjustment

—Sliding door frames 1½" x ¾" channel with 1½" x ⅝" flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel—Hinged door frames 1¼" x ½" channel with 1¼" x ⅝" flat bar cover three sides, 1¾" x ¾" x ⅝"

angle riveted to lock side. Each door to have 1½ pairs butt hinges riveted to both door

and transom bar—All doors to have substantial bronze mortise type cylinder locks

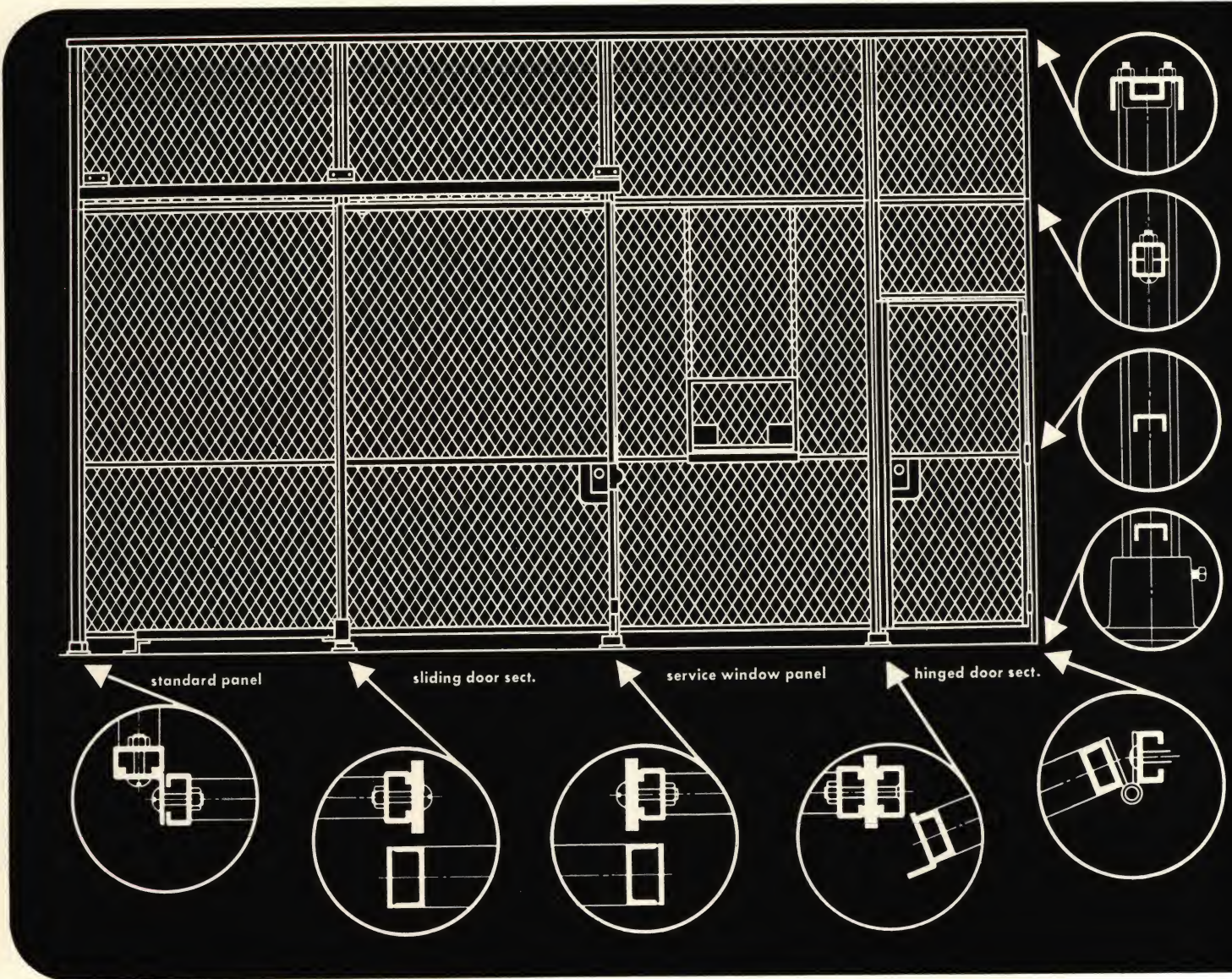
operated by key outside, recessed knob inside

—All bolts, hardware and accessories for complete installation to be included—Field bracing

furnished by erector—Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.



typical grouping of no. 130AL sections



heavy duty all wire type no. 135—2" diamond mesh—no. 6 gauge wire—1½" x ¾" channel frames—available in 7' to 20' heights for heavy industrial use



## components—nominal sizes

### standard panels:

Stock sizes—5' wide, 11'—20' heights in 12" increments.  
Special heights made to order.

### sliding door sections:

Stock sizes—3', 4', 5' and 6' wide. Standard headroom 7'.  
Special sizes to order.

### service window panels:

Stock sizes—24" x 15" standard service window (see page 3)  
in standard 5' panels. Special windows and panels to order.

### hinged door sections:

Stock sizes—2'-6", 3' and 3'-6" wide. Standard headroom 7'.  
Special sizes to order.

### filler panels:

Stock sizes—none. Special width panel to fill out runs or where  
standard 5' wide panels cannot be used.

### corners and intersections:

Stock sizes—1¼" angle for 90° corner, any height. Clips for  
three or four way 90° intersection, any height. 1½" O.D. pipe  
post for other than 90° corner.

### flat bar posts:

Stock sizes— $\frac{5}{16}$ " x 1¾" for partitions 11'—13' high  
 $\frac{5}{16}$ " x 2½" for partitions 13'—16' high  
 $\frac{5}{16}$ " x 3" for partitions 16'—20' high

All panels and door sections are interchangeable standardized  
units which can be arranged in any desired combination.

## 11'—20' wire mesh partitions

### all wire type—no. 130AL

Basic type for normal industrial use.

### sheet base type—no. 139AL

Deluxe type for normal industrial use.

### specifications no. 130AL

Partitions to be no. 130AL as manufactured  
by Acorn Wire and Iron Works, Inc.

—All wire type constructed of 10 gauge  
steel wire woven into 1½" diamond mesh, securely  
clinched to frames—Vertical frames to be 1¼" x ⅝"  
cold rolled 'C' section channels with ¼" bolt  
holes 12" o.c.—Horizontal frames 1" x ½" cold  
rolled channels—All joints mortised and  
tenoned—Center reinforcing bar 1" x ½" cold rolled  
channel tenoned to side frames. All wires passed  
through center bar—Flat bar posts to be (⅝" x 1¾")  
(⅝" x 2½") (⅝" x 3") (as detailed) with ¼" bolt  
holes to match partition—Top capping bar 2¼" x 1"  
cold rolled channel with ¼" 'U' bolts 2'4" o.c.

—Corner posts 1¼" x 1¼" angle with ¼" bolt holes  
to match partition—Cast iron floor sockets  
2½" high with set screw adjustment—Sliding door  
frames 1½" x ¾" channel with 1½" x ⅝" flat  
bar cover all around. Each door to have two 4 wheel roller  
bearing hangers, box track, and bottom guide  
channel—Hinged door frames 1¼" x ½" channel  
with 1¼" x ⅝" flat bar cover three sides,  
1⅜" x ¾" x ⅝" angle riveted to lock side. Each door  
to have 1½ pairs butt hinges riveted to both  
door and transom bar—All doors to have substantial  
bronze mortise type cylinder locks operated by key  
outside, recessed knob inside—All bolts, hardware,  
and accessories for complete installation to be  
included—Field bracing furnished by erector  
—Finish, one standard shop coat (factory green),  
(machinery gray), or (black) enamel.

### specifications no. 139AL

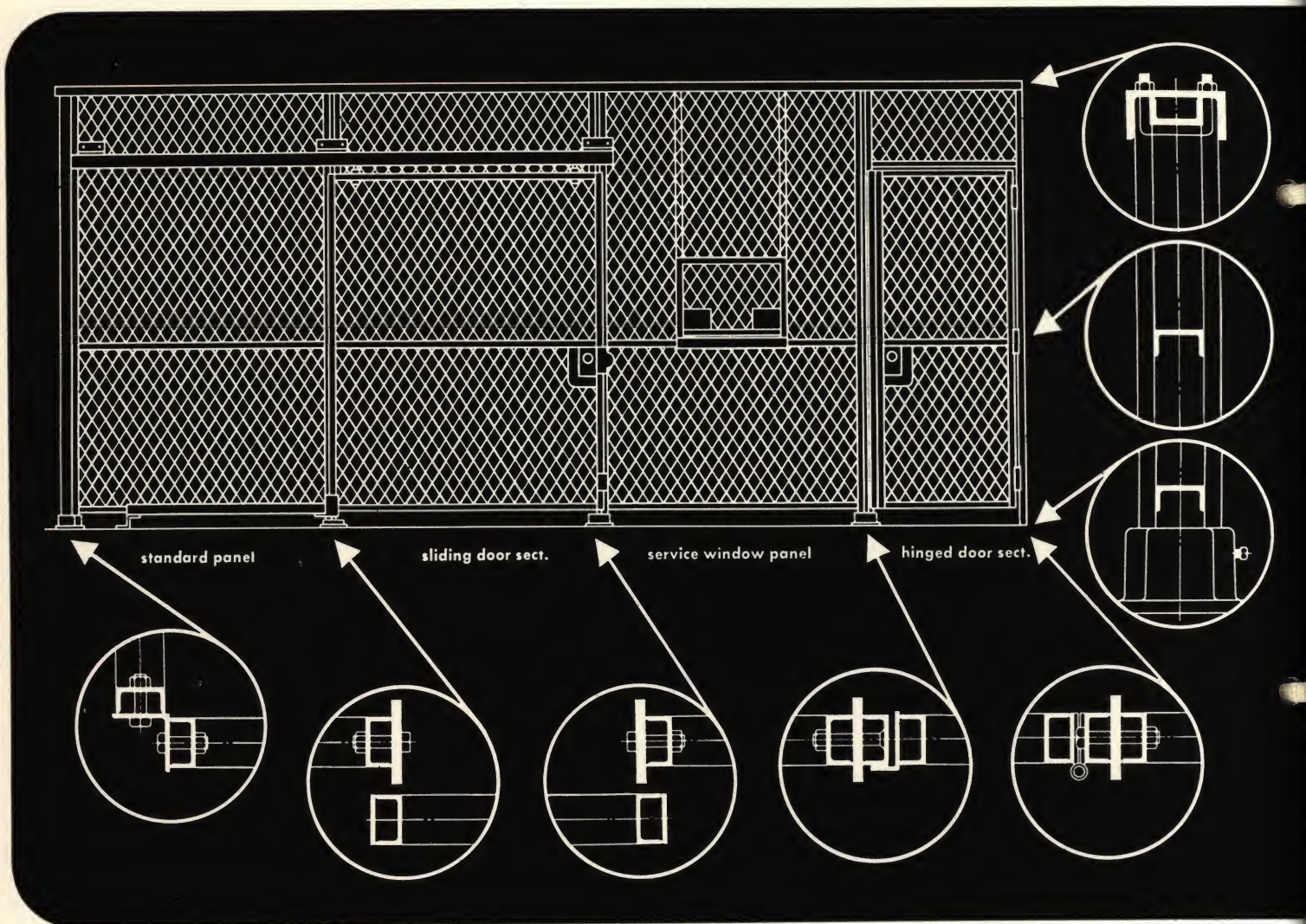
Partitions to be no. 139AL as manufactured  
by Acorn Wire and Iron Works, Inc.

Sheet base type—Lower panel

16 gauge formed steel sheet—Top panel constructed  
of 10 gauge steel wire woven into 1½" diamond  
mesh securely clinched to frames. (Balance of  
specifications same as 130AL).



typical grouping of no.135 sections





## 7'—20' wire mesh partitions

### all wire type—no. 135

Heavy duty all wire type for extra heavy industrial use.  
7'—20' heights in 12" increments.

### components—nominal sizes

#### standard panels:

Stock sizes—5' wide, 7'—20' heights in 12" increments.  
Special heights made to order.

#### sliding door sections:

Stock sizes—3', 4', 5' and 6' wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

#### service window panels:

Stock sizes—24" x 15" standard service window (see page 3) in standard 5' panels. Special windows and panels to order.

#### hinged door sections:

Stock sizes—2'-6", 3' and 3'-6" wide. 7' headroom except 6'-6" in 7' high partition. Special sizes to order.

#### filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5' wide panels cannot be used.

#### corners and intersections:

Stock sizes—1¾" angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 2¾" O.D. pipe post for other than 90° corner.

#### flat bar posts:

Stock sizes— $\frac{5}{16}$ " x  $2\frac{1}{2}$ " for partitions 7'—12' high  
 $\frac{5}{16}$ " x 3" for partitions 12'—16' high  
 $\frac{5}{16}$ " x  $3\frac{1}{2}$ " for partitions 16'—20' high

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

#### specifications

Partitions to be no. 135 as manufactured by Acorn Wire and Iron Works, Inc.

—All wire heavy duty type constructed of 6 gauge steel wire woven into 2" diamond mesh securely clinched into 1½" x ¾" channel frames—Vertical frames to have ¾" bolt holes 18" o.c.—All joints mortised and tenoned—Center reinforcing bar 1½" x ¾" channel tenoned to side frames—All wires passed through center bar—Flat bar posts to be ( $\frac{5}{16}$ " x  $2\frac{1}{2}$ " ( $\frac{5}{16}$ " x 3") ( $\frac{5}{16}$ " x  $3\frac{1}{2}$ " (as detailed) with ¾" bolt holes to match partition—Top capping bar 3" x 4.1 lb. channel with  $\frac{5}{16}$ " 'U' bolts 2'4" o.c. Corner posts 1¾" x 1¾" angle with ¾" bolt holes to match partition—Cast iron floor sockets 2½" high with set screw adjustment—Sliding door frames 1½" x ¾" channel with 1½" x ⅛" flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel—Hinged door frames 1½" x ¾" channel with 1½" x ⅛" flat bar cover three sides, 1⅝" x ⅞" x ⅛" angle riveted to lock side. Each door to have 1½ pairs heavy butt hinges riveted to both door and transom bar—All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside—All bolts, hardware, and accessories for complete installation to be included—Field bracing furnished by erector—Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.



## how to order

When the partition layout is planned around standardized units, the following information should be listed:

1. Type of partition (130A, 139A, 130AL, 139AL, 135).
2. Height of partition.
3. Number of standard panels.
4. Number and width of filler panels.
5. Number and width of door sections.

[a] Specify whether doors are hinged or sliding.

[b] Whether right or left hand doors are required.

**note:** Right hand door has lock on right hand side when facing door from key side.

[c] If hinged, whether to swing in or out.

[d] If sliding, whether inside or outside.

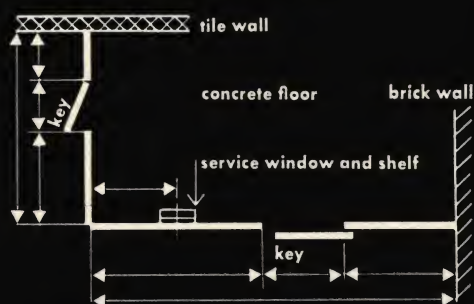
[e] Whether locks are to be keyed alike, different, or master-keyed.

6. Number of corner posts.

7. Kind of floor and wall.

8. Color of paint.

Where special conditions prevail details should be furnished giving necessary information.



## installations

Atomic Energy Commission  
Atomic Energy Commission  
Babcock and Wilcox Co.  
Bell Aircraft Corp.  
Boeing Airplane Co.  
Collins Radio Co.  
Corning Glass Works  
The Dow Chemical Co.  
Ekco Products Co.  
The Fafnir Bearing Co.  
General Electric Co.  
General Electric Co.  
General Motors Corp.  
General Motors Corp.

Los Alamos, N. Mex.  
Hanford, Wash.  
Beaver Falls, Pa.  
Hurst, Tex.  
Wichita, Kan.  
Cedar Rapids, Iowa  
Corning, N. Y.  
Midland, Mich.  
El Monte, Calif.  
New Britain, Conn.  
Cincinnati, Ohio  
Fort Wayne, Ind.  
Buffalo, N. Y.  
Flint, Mich.

Hotpoint Inc.  
IBM Corp.  
IBM Corp.  
International Harvester Co.  
International Harvester Co.  
Johnston Lawn Mower Corp.  
Lockheed Aircraft Corp.  
Glenn L. Martin Co.  
Motorola Inc.  
No. American Aviation Inc.  
Oklahoma Natural Gas Co.  
Schick Inc.  
Western Electric Co.  
Western Electric Co.

Milwaukee, Wis.  
Endicott, N. Y.  
Poughkeepsie, N. Y.  
Chicago, Ill.  
Memphis, Tenn.  
Brookhaven, Miss.  
Atlanta, Ga.  
Baltimore, Md.  
Phoenix, Ariz.  
Columbus, Ohio  
Oklahoma City, Okla.  
Stamford, Conn.  
Indianapolis, Ind.  
Winston-Salem, N. C.



## Acorn Wire and Iron Works, Inc.

general office: 4940 South Kilbourn Avenue, Chicago 32, Illinois

101 Park Avenue, New York 17, New York

1709 West 8th Street, Los Angeles 17, California



Digitized by:



ASSOCIATION  
FOR  
PRESERVATION  
TECHNOLOGY,  
INTERNATIONAL  
[www.apti.org](http://www.apti.org)

BUILDING  
TECHNOLOGY  
HERITAGE  
LIBRARY

<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:

Carol J. Dyson, AIA